

Notice of Allowability

Application No.

10/632,478

Examiner

Edwin A. León

Applicant(s)

LEE ET AL.

Art Unit

2833

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 1/7/04.
2. ☒ The allowed claim(s) is/are 1.
3. ☒ The drawings filed on 01 August 2003 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
- * Certified copies not received: _____.
5. ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.
(a) ☐ The translation of the foreign language provisional application has been received.
6. ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. **THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

7. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
8. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
1) ☐ hereto or 2) ☐ to Paper No. _____
(b) ☐ including changes required by the proposed drawing correction filed _____, which has been approved by the Examiner.
(c) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No. _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the margin according to 37 CFR 1.121(d).

9. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachments

- 1 ☒ Notice of References Cited (PTO-892)
2 ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3 ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No. 080103
4 ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5 ☐ Notice of Informal Patent Application (PTO-152)
6 ☒ Interview Summary (PTO-413), Paper No. 010704
7 ☒ Examiner's Amendment/Comment
8 ☒ Examiner's Statement of Reasons for Allowance
9 ☐ Other

DETAILED ACTION

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Wei Te Chung on January 7, 2003.

The application has been amended as follows:

In Claim 1, Line 8, after "PCB" add --, a plurality of passageways is defined in the tongue and extending through the rear wall, and the contacts are received into the passageways, the contact has a securing portion locating between the engaging portion and the solder portion, the securing portion securing in the passageway, the solder portion of the contact comprises a leg portion extending from the securing portion and a foot portion extending from the leg portion and bent in a right angle so as to be parallel to the rear wall of the housing, the solder portions of the contacts are arranged in two rows, one row being close to the rear wall of the housing and the other row being far away from the rear wall of the housing, the connector further comprises a pair of board locks mounted to the bottom wall of the housing, the board lock is made of metal material, the board lock comprises a mounting section at a top thereof, which is

assembled into the bottom wall of the housing, and a retaining section below the mounting section which is adapted for being mounted in the PCB.—

Please cancel Claims 2-15.

Allowable Subject Matter

2. Claim 1 is allowed.

The following is an examiner's statement of reasons for allowance:

Takemasa (U.S. Patent No. 6,045,408) disclose a connector comprising: an insulative housing (20) having a mating space (between 23 and 20), and a plurality of contacts (50) each having an engaging portion (51) and a solder portion (55) bent in right angle so as to be parallel to a rear wall (29). See Figs. 1-6.

Azuma et al. (U.S. Patent No. 6,024,608) disclose connector (1) for being soldered to a printed circuit board (PCB) (K1), comprising: an insulative housing (10) having a mating space (inside 10), and a plurality of contacts (16) each having an engaging portion (20) and a solder portion (23) bent in right angle so as to be parallel to a rear wall for being soldered to the PCB (K1). See Figs. 1-9.

Koseki et al. (U.S. Patent No. 6,155,886) disclose connector (3) for being soldered to a printed circuit board (PCB), comprising: an insulative housing (30) having a mating space (32), and a plurality of contacts (10) each having an engaging portion (121) and a solder portion (15) bent in right angle so as to be parallel to a rear wall for being soldered to the PCB. See Figs. 1-8.

However, the references fail to teach, disclose, or suggest, either alone or in combination, the solder portion of the contact comprises a leg portion extending from the securing portion and a foot portion extending from the leg portion and bent in a right angle so as to be parallel to the rear wall of the housing, the solder portions of the contacts are arranged in two rows, one row being close to the rear wall of the housing and the other row being far away from the rear wall of the housing and in combination with the rest of the limitations of the base claim.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Yamada et al. (U.S. Patent No. 5,057,027), Azuma et al. (U.S. Patent No. 5,971,800), Chan et al. (U.S. Patent No. 5,626,482), McHugh (U.S. Patent No. 5,873,742), and McHugh (U.S. Patent No. 6,095,824) disclose connectors being soldered to printed circuit boards having contacts with solder portion.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Edwin A. León whose telephone number is (703) 308-6253. The examiner can normally be reached on Monday - Friday 10:00-6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paula A. Bradley can be reached on (703) 308-2319. The fax phone number for the organization where this application or proceeding is assigned is (703) 308-7722.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

P. Bradley
P. AUSTIN BRADLEY
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800

Edwin A. Leon

Edwin A. Leon
AU 2833

EAL
January 9, 2004